

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/608,086	06/30/2003	William Earl Russell II	24GA5998-7	8107	
33727	7590 03/04/2005		EXAM	EXAMINER	
•	DICKEY & PIERCE, P.	PALABRICA,	PALABRICA, RICARDO J		
P.O. BOX 8910 RESTON, VA 20195			ART UNIT	PAPER NUMBER	
•			3641	3641	
			DATE MAILED: 03/04/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/608,086	RUSSELL ET AL.	
Examiner	Art Unit	
Rick Palabrica	3641	\

Bolote the rining of all Appear Brief	Examiner	Art Unit	l .				
	Rick Palabrica	3641					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
THE REPLY FILED 10 February 2005 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. The reply was filed after a final rejection, but prior to filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a							
Request for Continued Examination (RCE) in compliance time periods: a) The period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the mailing of the period for reply expiresmonths from the period for reply expiresmonths from the period for reply expiresmonths from the period for the period for reply expiresmonths from the period for the	e with 37 CFR 1.114. The reply mu date of the final rejection.	st be filed within one	of the following				
b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO							
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL							
2. The reply was filed after the date of filing a Notice of App was filed on A brief in compliance with 37 CFR 4 Appeal (37 CFR 41.37(a)), or any extension thereof (37 Appeal has been filed, any reply must be filed within the <u>AMENDMENTS</u>	1.37 must be filed within two mont CFR 41.37(e)), to avoid dismissal of	ths of the date of filing of the appeal. Since a	the Notice of				
3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will <u>not</u> be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below); (b) They raise the issue of new matter (see NOTE below);							
(c) ☐ They are not deemed to place the application in be appeal; and/or (d) ☐ They present additional claims without canceling a			the issues for				
(d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: (See 37 CFR 1.116 and 41.33(a)).							
4. The amendments are not in compliance with 37 CFR 1.		ompliant Amendment	(PTOL-324).				
5. Applicant's reply has overcome the following rejection(s):							
6. Newly proposed or amended claim(s) would be a the non-allowable claim(s).			•				
7. For purposes of appeal, the proposed amendment(s): a) will not be entered, or b) will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:							
Claim(s) objected to: Claim(s) rejected: Claim(s) withdrawn from consideration:							
AFFIDAVIT OR OTHER EVIDENCE							
 The affidavit or other evidence filed after a final action, b because applicant failed to provide a showing of good ar and was not earlier presented. See 37 CFR 1.116(e). 	d sufficient reasons why the affida	vit or other evidence	s necessary				
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to showing a good and sufficient reasons why it is necessar 	overcome <u>all</u> rejections under appe ry and was not earlier presented. S	al and/or appellant fa See 37 CFR 41.33(d)(ils to provide a 1).				
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	on of the status of the claims after o	entry is below or attac	ched.				
 The request for reconsideration has been considered by See Continuation Sheet. 			nce because:				
12. Note the attached Information Disclosure Statement(s).13. Other:	(PTO/SB/08 or PTO-1449) Paper	No(s)					

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments that the claims are neither anticipated or obvious over Takeuchi or Musick are not convincing. The Examiner, however, agrees to withdraw the rejection of claims under 35 U.S.C. 112, 1st and 2nd paragraphs in sections 4 and 5 of the 11/10/04 Final Office Action, based on the reasons given in Applicant's reply and the amendment of the preamble of claim 31.

The Applicant alleges that contrary to claim 31, there is no optimization process performed by Takeuchi. The Examiner disagrees, as stated in the 11/10/04 Final Office Action and further clarfiled herein. The term, "optimization" is defined in the dictionary as, "[A]n act, process, or methodology of making something (as a design, system or decision) as fully perfect, functional, or effective as possible." (See Merriam Webster's Colegiate Dictionary, 10th edition, 1993). Applicant himself states in the specification that his invention "would be capable of performing a comprehensive nuclear reactor plant operations optimization process that would identify most, if not all, of the appropriate changes/modifications in operational control variable that are needed to result in improved fuel cycle efficiency, better global reactor economics and enhanced operational flexibility."

Takeuchi teaches that in a nuclear power plant, an operator monitors gauges or other displays indicating the status of various operating conditions in the plant to determine appropriate modifications on how the plant is controlled. However, there is no existing way to provide the operator with an expert's reponse whenever changes occur in plant data (see col. 1, lines 18+). Takeuchi's invention provides the operator with an expert's analysis of current operating data, determine the probabilities of existence of abnormal circumstances and predict the likelihood of future events based on said current data (see col. 1, lines 36+). Thus, Takeuchi's expert system provides an optimization that meets the ordinary definition of "optimization" because it allows the operator to maintain the plant within operating limits, prevent occurrence of scrams, and thereby make the operations fully functional or effective. Also, by assisting the operator keep the plant within operating and licensing limits, Takeuchi's expert system avoids abnormal events, costly shutdowns and potential regulatory investigations and/or enforcement penalties, thereby meeting the objective of Applicant's claimed process, i.e., improved fuel cycle efficiency, better global reactor economics and enhance operational flexibility.

As to the Applicant's traverse of Musick, the Examiner disagrees for reasons similar to that given above for Takeuchi.

Based on the above, the process of Takeuchi and/or Musick read on Applicant's claims, as stated in the 11/10/04 Office Action. Examiner therfore maintains the rejection of claims based on the art of record.

MICHAEL J. CARONE

Supervisory patent examine